

Applied Science Level 2 (Award in Application)

It is essential that you complete the tasks within this transition document and present them to your class teacher in your first lesson at the start of the new academic year. These tasks will support your understanding of key concepts that you will be tested on in the induction assessments, taken within the first 3 weeks, that ultimately decide if you are suitable to continue on this course.

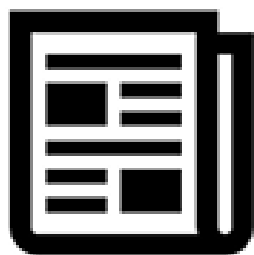
Units/Topics	Supporting Links	Reading
Organic Chemicals: Hydrocarbons	Unit Specification: https://qualifications.pearson.com/content/dam/pdf/BTEC-Firsts/Applied-Science/2012/Specification-and-sample-assessments/9781446934807_BTECFIRST_L12_AofS_Iss2.pdf	Content summary: https://studyrocket.co.uk/revision/gcse-chemistry-combined-science-aqa/combined-science-organic-chemistry/hydrocarbons-and-crude-oil
TASK 1: a) <u>Draw</u> the structure of a alkene and an alkane. Describe what type of bonding occurs in hydrocarbons. b) Define the term: intermolecular forces. c) <u>Describe</u> and <u>explain</u> how the boiling point changes as hydrocarbon length increases.	TASK 2: a) Watch the video https://www.youtube.com/watch?v=PYMWUz7TC3A b) <u>Describe</u> the process of fractional distillation c) In the form of a table, outline the uses of the fractions in everyday life	TASK 3: <u>Evaluate</u> the benefits and drawbacks of using hydrocarbons and other organic materials. Ensure you mention the environmental, economic and social implications.

**Know your why –
Why Science?**

<https://www.bbc.co.uk/bitesize/groups/ce8q155gnd3t>

<https://www.technicians.org.uk/>

Further Research



<https://www.bbc.co.uk/bitesize/guides/zsrgng8/revision/1>

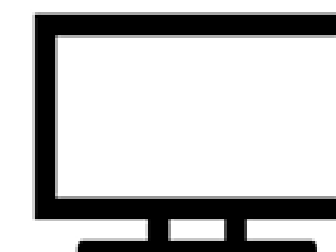
Further Listening



<https://www.rsc.org/policy-evidence-campaigns/brought-to-you-by-chemistry-podcast/>

<https://thebiologist.rsb.org.uk/biologist-features/12-of-the-best-podcasts-for-biologists>

Further Watching



https://www.youtube.com/watch?v=bOuEJf8Dr_4

<https://www.youtube.com/watch?v=CjmriZq5xRo&t=121s>